Jin-Shyan Lee

List of Publications by Year
in descending order

58 papers	2,112 citations	567281 15 h-index	580821 25 g-index
58 all docs	58 docs citations	58 times ranked	2027 citing authors

#	Article	IF	Citations
1	An Extended Hierarchical Clustering Approach to Energy-Harvesting Mobile Wireless Sensor Networks. IEEE Internet of Things Journal, 2021, 8, 7105-7114.	8.7	14
2	Design and Implementation of Smart Agricultural Systems Based on Networked PLC and Mobile App. , 2021, , .		2
3	Development of AI-based Recycling Bins Using MobileNet-SSD Networks. , 2021, , .		3
4	Development of Fuzzy-Logic-Based Controllers for Energy Conservation in Human-Electric Bikes. , 2021, , .		2
5	An Experimental Heuristic Approach to Multi-Pose Pedestrian Dead Reckoning Without Using Magnetometers for Indoor Localization. IEEE Sensors Journal, 2019, 19, 9532-9542.	4.7	36
6	Enhanced fuzzy‐logic‐based power‐assisted control with user‐adaptive systems for human‐electric bikes. IET Intelligent Transport Systems, 2019, 13, 1492-1498.	3.0	11
7	Development of an Enhanced Threshold-Based Fall Detection System Using Smartphones With Built-In Accelerometers. IEEE Sensors Journal, 2019, 19, 8293-8302.	4.7	61
8	Development of an Automatic Custom-Made Drink Making System Using PLC and Java Applet. , 2019, , .		2
9	Development of Imitated-Handwriting Systems Using PLC-Controlled CoreXY Mechanisms. , 2019, , .		2
10	The Extreme Edge at the Bottom of the Internet of Things: A Review. IEEE Sensors Journal, 2019, 19, 3179-3190.	4.7	74
11	An Application of Grey Prediction to Transmission Power Control in Mobile Sensor Networks. IEEE Internet of Things Journal, 2018, 5, 2154-2162.	8.7	9
12	Development of indoor air quality supervision systems using ZigBee wireless networks. , 2018, , .		9
13	An Enhanced Hierarchical Clustering Approach for Mobile Sensor Networks Using Fuzzy Inference Systems. IEEE Internet of Things Journal, 2017, 4, 1095-1103.	8.7	116
14	Development of residential lighting control systems using ZigBee wireless technology. , 2017, , .		3
15	Applications of support vector machines to standby power reduction. , 2016, , .		0
16	Development of smart shopping carts with customer-oriented service. , 2016, , .		21
17	Design and simulation of control systems for electric-assist bikes. , 2016, , .		9
18	An Improved Three-Layer Low-Energy Adaptive Clustering Hierarchy for Wireless Sensor Networks. IEEE Internet of Things Journal, 2016, 3, 951-958.	8.7	124

#	Article	IF	Citations
19	A preliminary study of low power wireless technologies: ZigBee and Bluetooth Low Energy. , 2015, , .		27
20	A comparative study of communication disturbance observers for time-delay systems. , 2014, , .		2
21	Behavior modeling and remote control of industrial conveyor systems via internet. , 2013, , .		0
22	Experimental Evaluation of ZigBee-Based Wireless Networks in Indoor Environments. Journal of Engineering (United States), 2013, 2013, 1-9.	1.0	16
23	A UML-based approach to automatic cruise control modeling for smart vehicles. , 2012, , .		0
24	Hybrid P2P Client-Server Data Transmission Using Dynamic Peer Grouping and Switching. , 2012, , .		0
25	Performance evaluation of ZigBee-based sensor networks using empirical measurements. , 2012, , .		3
26	Fuzzy-Logic-Based Clustering Approach for Wireless Sensor Networks Using Energy Predication. IEEE Sensors Journal, 2012, 12, 2891-2897.	4.7	407
27	A Vectorized Data Communication System for Localization in ZigBee Sensor Networks. Advanced Science Letters, 2012, 9, 487-492.	0.2	2
28	A filtering agent scheme to remote control of industrial processes using Petri nets. Expert Systems With Applications, 2011, 38, 15310-15315.	7.6	3
29	A modular command filtering approach to coordination of flexible manufacturing systems. International Journal of Advanced Manufacturing Technology, 2011, 56, 1115-1123.	3.0	2
30	Model construction of pharmaceutical manufacturing processes using Petri nets. , 2011, , .		0
31	A gateway-based inter-PAN binding mechanism for ZigBee sensor networks. , 2011, , .		1
32	A preliminary application of Petri nets to the supervision of remotely operated systems. , 2010, , .		1
33	Development of a Petri net-based fault diagnostic system for industrial processes. , 2009, , .		2
34	Applications of Short-Range Wireless Technologies to Industrial Automation: A ZigBee Approach. , 2009, , .		31
35	A Petri Net Design of Command Filters for Semiautonomous Mobile Sensor Networks. IEEE Transactions on Industrial Electronics, 2008, 55, 1835-1841.	7.9	53
36	Multiparadigm Modeling for Hybrid Dynamic Systems Using a Petri Net Framework. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2008, 38, 493-498.	2.9	18

#	ARTICLE	IF	CITATIONS
37	A Comparative Study of Wireless Protocols: Bluetooth, UWB, ZigBee, and Wi-Fi. , 2007, , .		621
38	Implementation of a Remote Hierarchical Supervision System Using Petri Nets and Agent Technology. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2007, 37, 77-85.	2.9	16
39	A Petri-Net Approach to Modular Supervision With Conflict Resolution for Semiconductor Manufacturing Systems. IEEE Transactions on Automation Science and Engineering, 2007, 4, 584-588.	5.2	22
40	A Command Filtering Framework to Collision Avoidance for Mobile Sensory Robots. , 2007, , .		1
41	Performance evaluation of IEEE 802.15.4 for low-rate wireless personal area networks. IEEE Transactions on Consumer Electronics, 2006, 52, 742-749.	3.6	115
42	ITRI ZBnode: A ZigBee/IEEE 802.15.4 Platform for Wireless Sensor Networks. , 2006, , .		30
43	Design and Implementation of ZigBee/IEEE 802.15.4 Nodes for Wireless Sensor Networks. Measurement and Control, 2006, 39, 204-208.	1.8	9
44	STATECHART MODELING AND WEB-BASED SIMULATION OF HYBRID DYNAMIC SYSTEMS FOR E-AUTOMATION. Journal of the Chinese Institute of Industrial Engineers, 2005, 22, 19-27.	0.5	4
45	A systematic approach for the sequence controller design in manufacturing systems. International Journal of Advanced Manufacturing Technology, 2005, 25, 754-760.	3.0	17
46	An Application of Petri Nets to Supervisory Control for Human–Computer Interactive Systems. IEEE Transactions on Industrial Electronics, 2005, 52, 1220-1226.	7.9	65
47	An improved evaluation of ladder logic diagrams and Petri nets for the sequence controller design in manufacturing systems. International Journal of Advanced Manufacturing Technology, 2004, 24, 279.	3.0	14
48	Design and Implementation of the SNMP Agents for Remote Monitoring and Control via UML and Petri Nets. IEEE Transactions on Control Systems Technology, 2004, 12, 293-302.	5.2	32
49	Remote supervisory control of the human-in-the-loop system by using Petri nets and java. IEEE Transactions on Industrial Electronics, 2003, 50, 431-439.	7.9	28
50	A PLC-based design for the sequence controller in discrete event systems. , 0, , .		10
51	A new approach to evaluate ladder logic diagrams and Petri nets via the IF-THEN transformation. , 0, , .		6
52	Design of remote environmental monitoring systems. , 0, , .		3
53	UML-based modeling and multi-threaded simulation for hybrid dynamic systems. , 0, , .		6
54	An IDEF0/Petri net approach to the system integration in semiconductor manufacturing systems. , 0, , .		2

#	ARTICLE	IF	CITATIONS
55	A Petri-net approach to hierarchical supervision for remote-controlled processes. , 0, , .		0
56	An object-oriented design of the hybrid controller for automated vehicles in an AHS. , 0, , .		1
57	A multi-paradigm modeling approach for hybrid dynamic systems. , 0, , .		0
58	An Experiment on Performance Study of IEEE 802.15.4 Wireless Networks. , 0, , .		44